



Agenda

- Welcome & Introductions
- North Carolina Maritime Strategy Goals & Objectives
- Current North Carolina Freight Context
- Trends in Global Goods Movement
- Competitive Position
- Potential Market Positions
- Study Process and Results Interactive Discussion



Welcome

- Roberto Canales PE, Secretary's Coordinator of Strategic Initiatives, North Carolina Department of Transportation
- Col. Beth Austin, J4/Deputy Chief of Staff for Logistics, North Carolina National Guard



MARITIME Strategy

Maritime Strategy Executive Team

- Walter Dalton Lt. Governor (Chair)
- Al Delia Governor's Policy Advisor (Vice Chair)
- Keith Crisco Secretary Department of Commerce
- Dee Freeman Secretary Department of Environment and Natural Resources
- Gene Conti Secretary of Transportation
- Roberto Canales, PE NCDOT (Staff Lead / MSET Liaison)
- Virginia Mabry NCDOT (Project Manager)



MARITIME Strategy

Maritime Advisory Council

- Public and private sector industry representatives from shippers, shipping lines, trucking, railroad, agricultural and manufacturing interests, along with government, policy, academic and community-at-large representatives
- Provide guidance to the project team, based on mission defined by the Maritime Study Executive Team
- As a hands-on, engaged advisory body, the Advisory Council will meet three to four times during the year to support strategy development at major project milestones



NORTH CAROLINA

MARITIME Strategy

Project Team

AECOM

- Global engineering firm with 52,000 staff in 100 countries
- Industry leader in transportation, rail/transit, ports & marine
- 25 years in North Carolina

URS

- Global engineering firm with 45,000 staff
- 45 years in North Carolina

Eydo

public involvement for NCDOT and NCRR



THE TOP 500 DESIGN FIRMS

Goals and Objectives

- The State of North Carolina has initiated the development of the North Carolina Maritime Strategy to serve as an open evaluation of North Carolina's position, opportunities and challenges as a portal for global maritime commerce.
- The study will examine the role that North Carolina ports play in sustaining and strengthening the State's economy, and identify specific strategies to optimize benefits received from the State's investments in port and associated transportation infrastructure.
- The North Carolina Maritime Strategy is being prepared as the expansion of the Panama Canal nears its scheduled 2014 completion, and the United States recognizes the increasing importance of exports to national and regional economic growth.

AECOM WURS

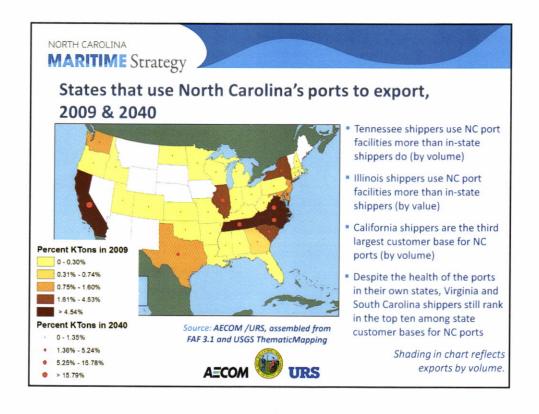


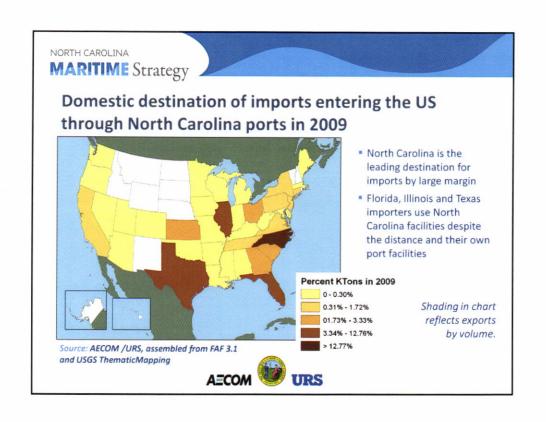


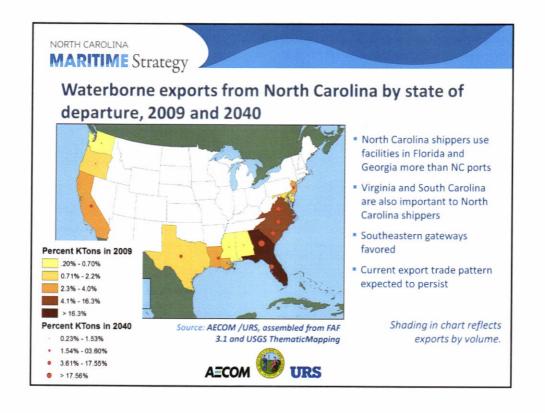
North Carolina Freight Context

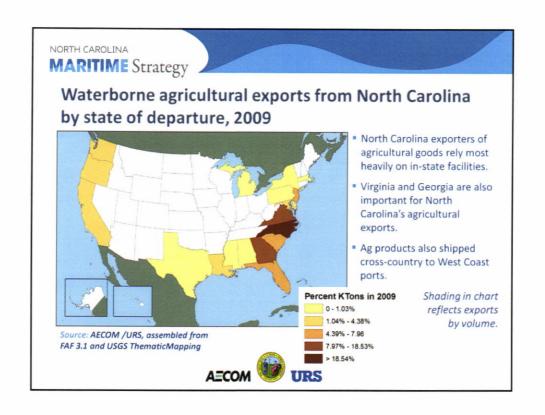






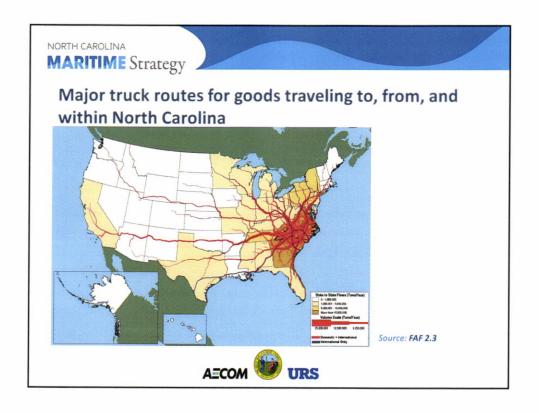


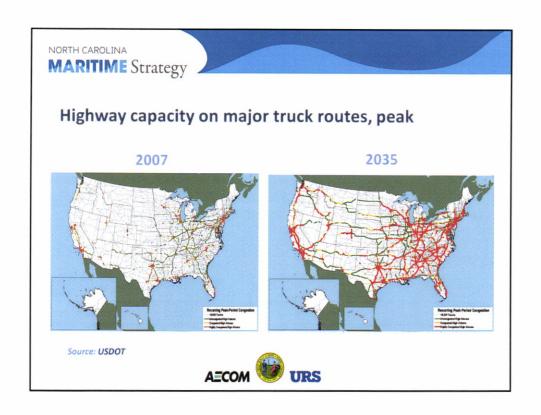


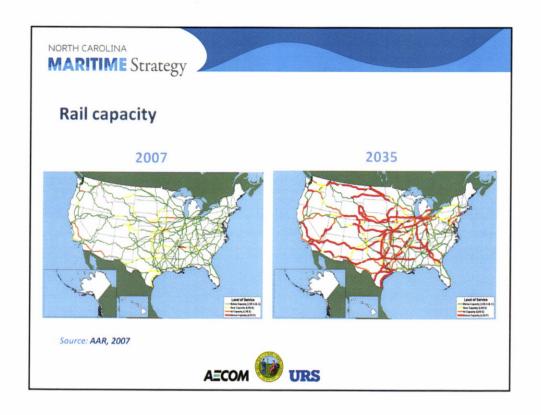


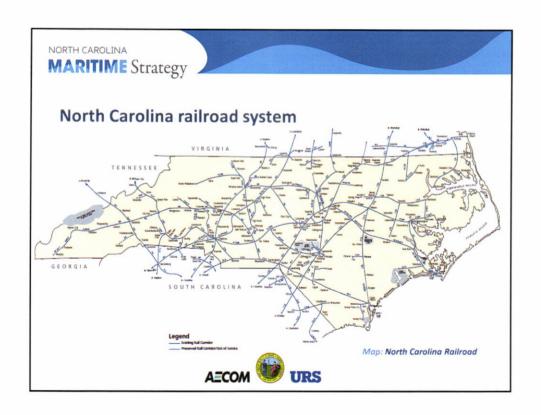


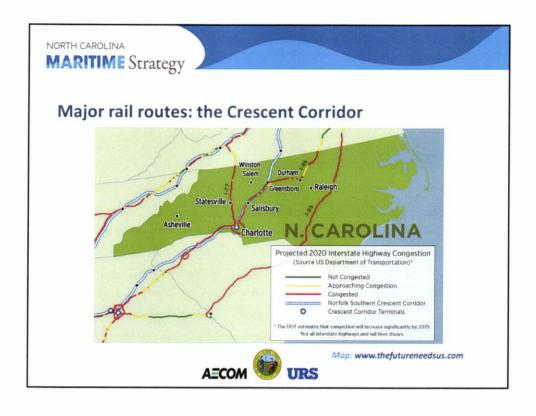




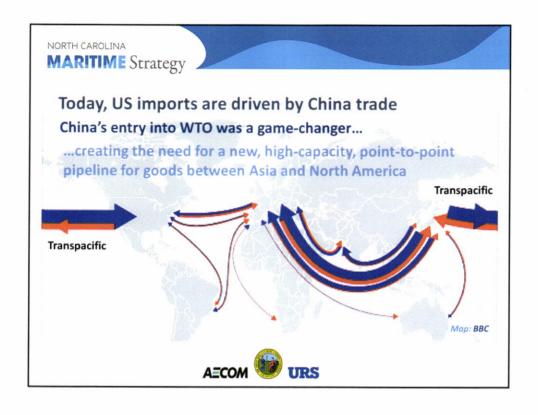




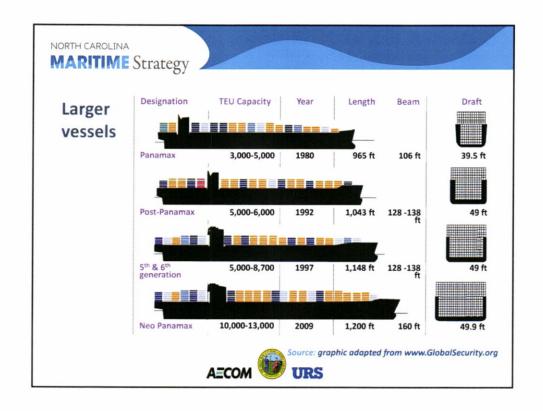




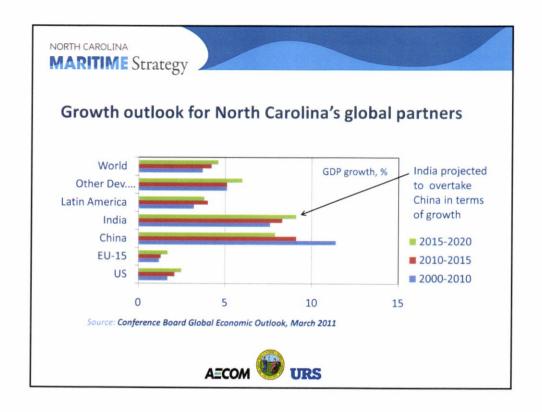


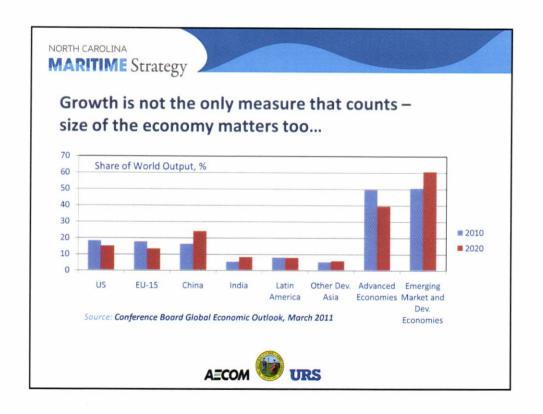


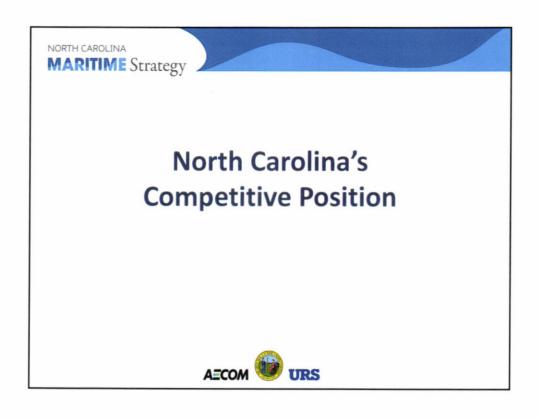


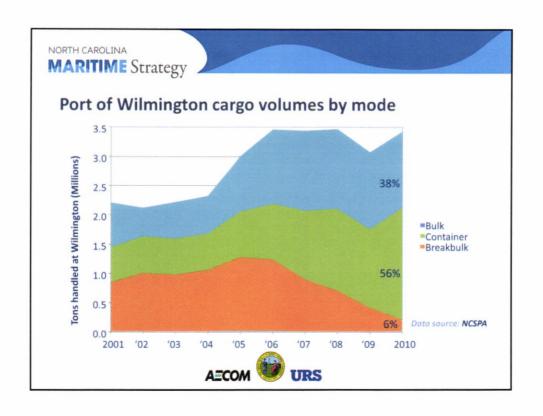


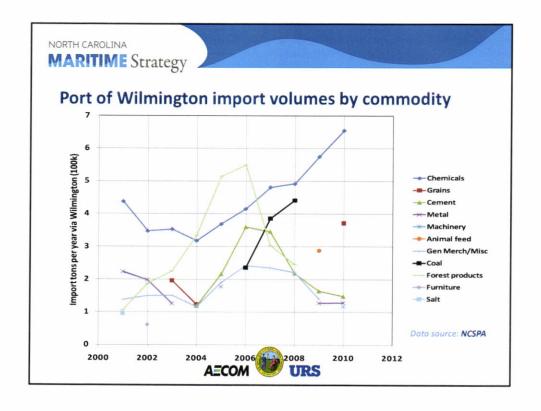


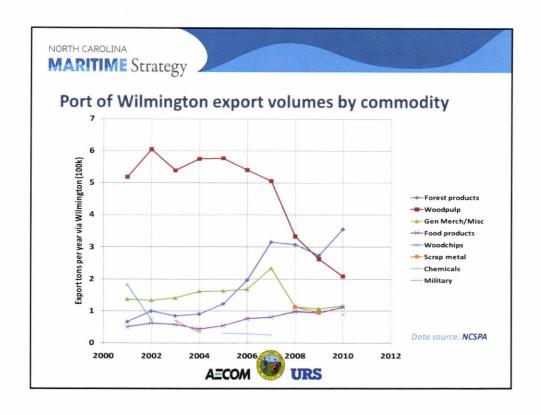


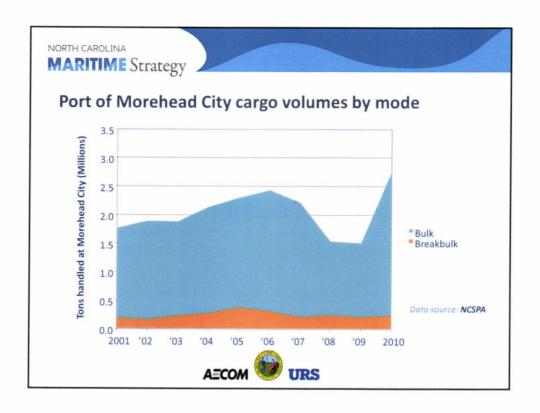


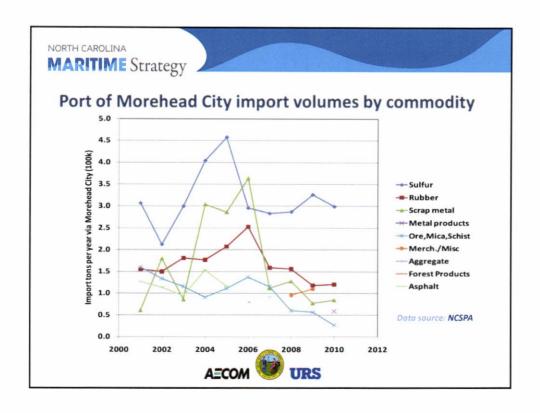


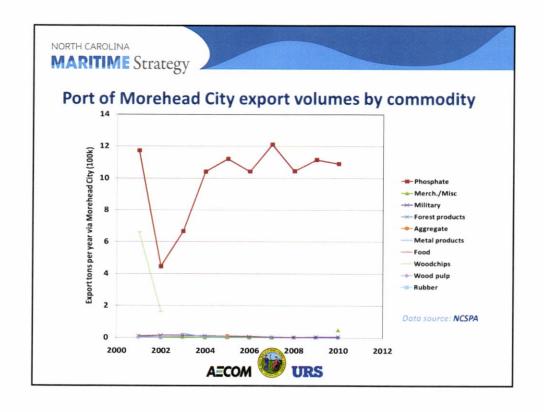


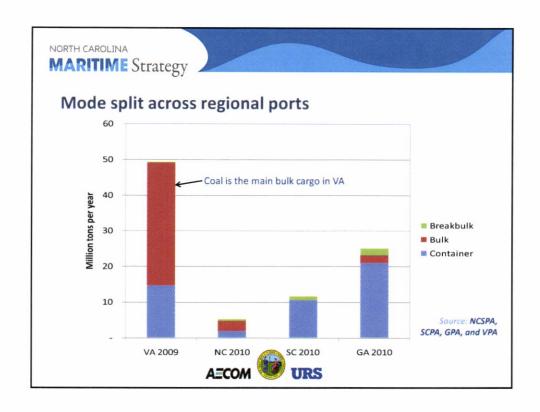


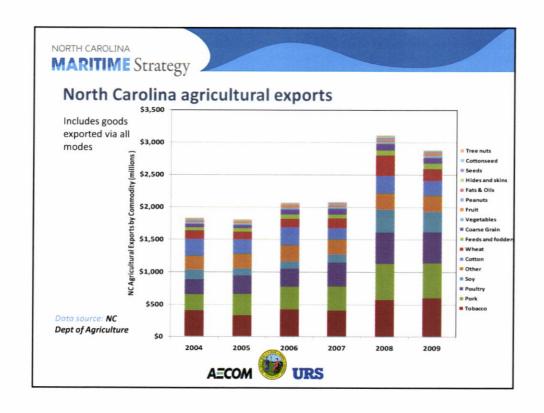


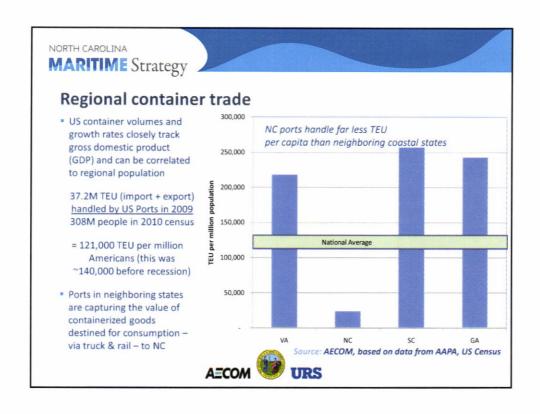


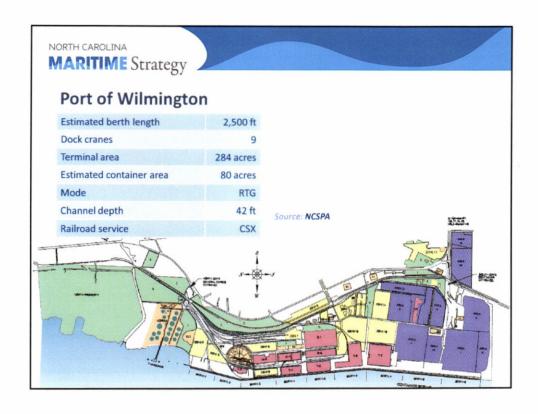


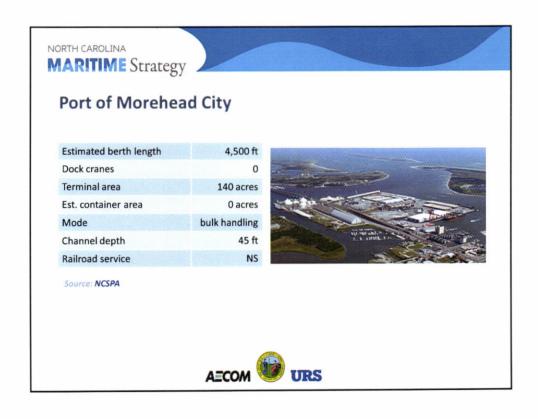


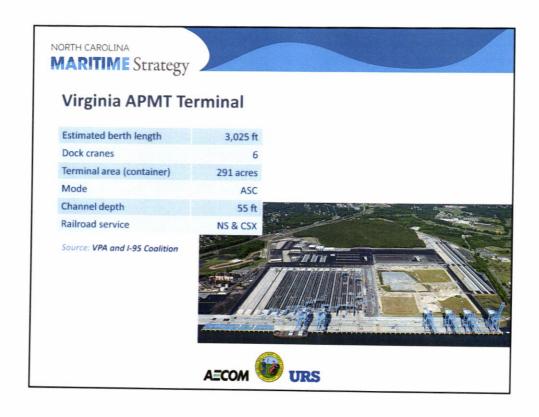


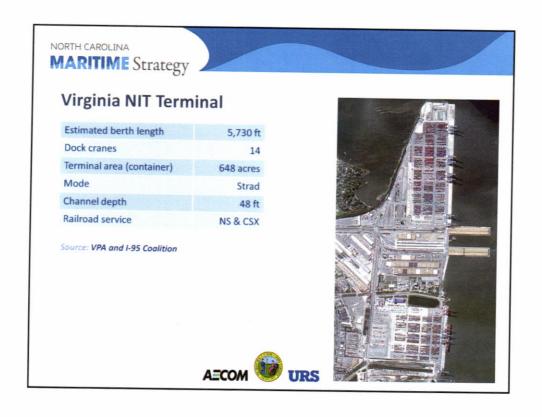


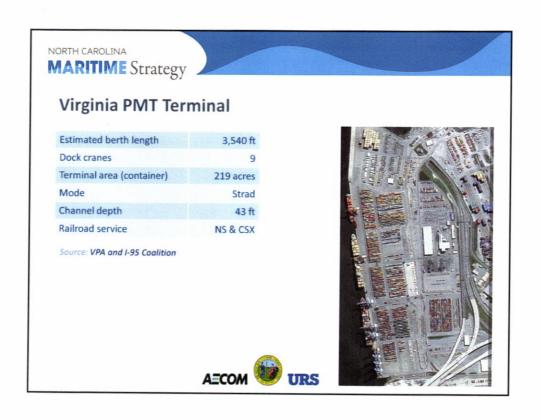




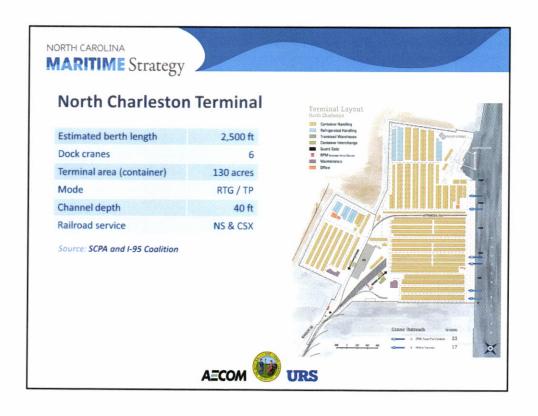


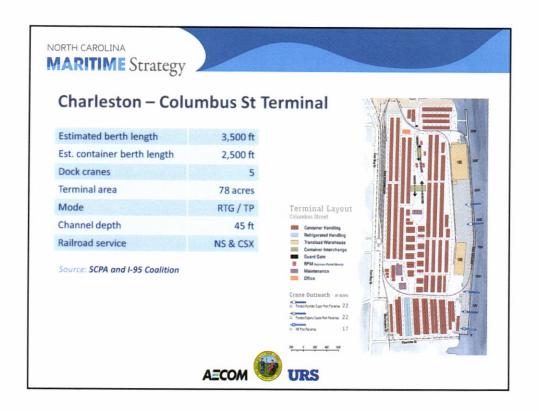


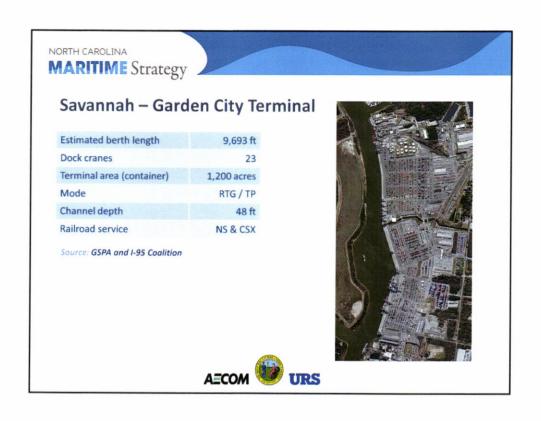


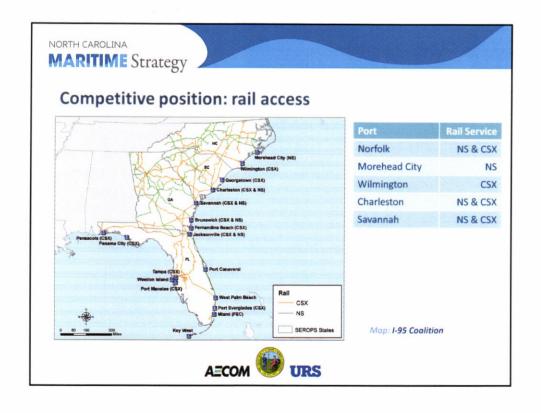


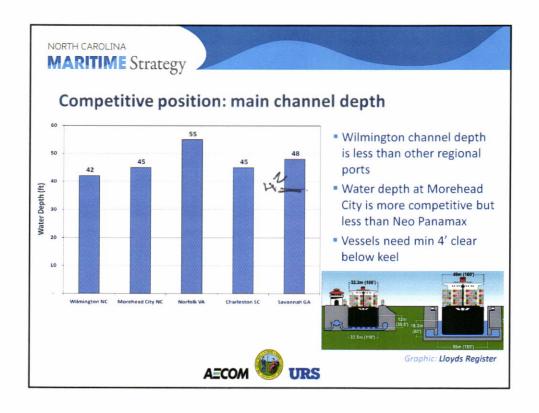


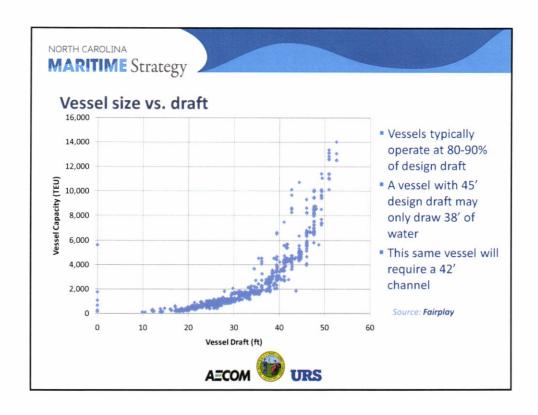


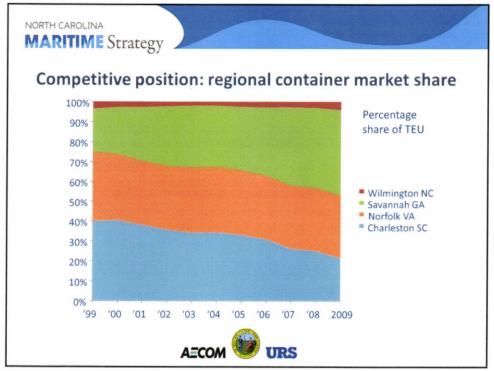


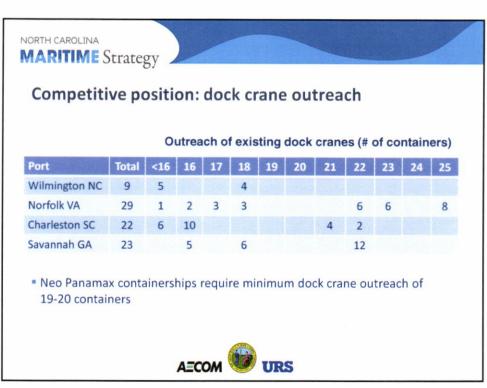














Planned future terminals in the region

- Craney Island, Norfolk: 500 Acres, 2.1M TEU Capacity
- Charleston Navy Base: 280 Acres, 1.2M TEU Capacity
- Jasper County Terminal (SC+GA): 1500 Acres, 6.2M TEU Capacity

Notes:

- Existing and future capacities to be refined by AECOM over the course of the project
- These projects are pending market demand, funding, and environmental permitting, especially for dredging in SC and GA





Potential Market Positions



NORTH CAROLINA

MARITIME Strategy

Mega container terminal

- 50+' water depth to accommodate Neo Panamax vessels
- Dock cranes of minimum 20 container reach
- 3 or more contiguous berths
- High density (stacked) container storage area (backland)
- Automated or automatable
- On-terminal rail in North America





A=COM



MARITIME Strategy

Mid-range container terminal

- 40+' water depth to accommodate Panamax vessels
- Dock cranes with minimum reach of 13 containers
- 2 or more contiguous berths
- Medium to high density (stacked) container storage area (backland)
- Rail on- or near terminal is desirable in North America







URS

NORTH CAROLINA MARITIME Strategy

Example: American Feeder Lines is a new company with USEC transshipment business model

- Inset: New England Halifax Shuttle & Planned Routes
- "First service will employ modern container feeder of 1,000 - 1,300 TEU capacity in a weekly service connecting Boston, MA. and Portland, ME with Halifax, NS/Canada."

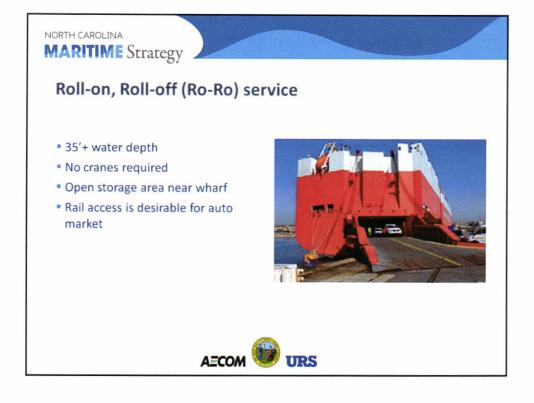


Map: American Feeder Lines

AECOM (







MARITIME Strategy

Bulk goods

- 40'+ water depth, considerably more for some cargos
- Specialized vessel loaders, or mobile harbor cranes with grabs
- Custom storage facilities
- Silos/buildings for dry goods
- Custom loaders for trains/trucks







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MARITIME Strategy

Breakbulk goods

- 40'+ water depth
- Mobile harbor cranes with various grabs are most common
- Open storage area or warehousing near wharf
- Many traditional breakbulk goods are now moving by container...



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MARITIME Strategy

Project and military cargo

- 35'+ water depth
- Mobile harbor cranes with various grabs are most common
- Loading/storage/security needs vary for various military cargo
- Rail access on dock is appealing for heavy loads
- Open storage area near wharf
- Wind turbines have been high growth market







NORTH CAROLINA

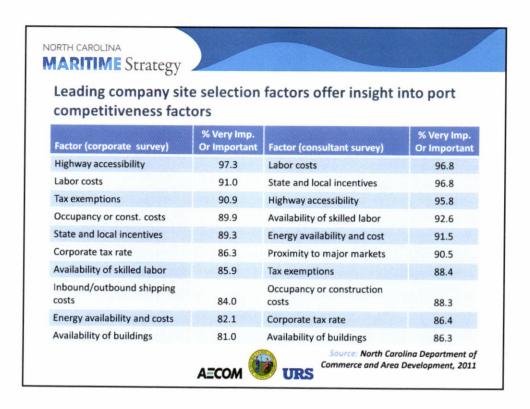
MARITIME Strategy

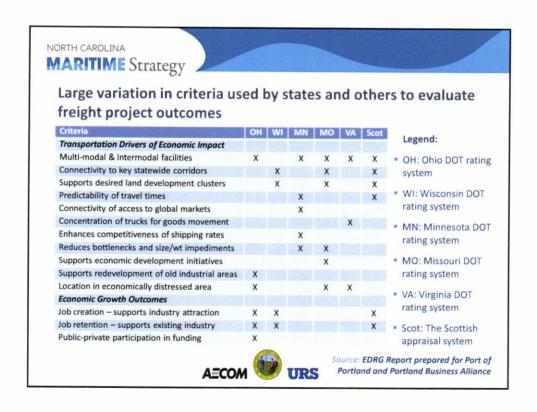
Comparison of market alternatives: measuring potential benefits from port investment

- Job creation and associated earnings
- Economic diversity
 - Resilience to economic cycles
 - Compatibility with the State's other significant economic drivers
- Productivity gains to industry: competitiveness
- Public benefits
 - Fiscal returns to the state
 - Potential to reduce road VMT when part of larger freight plan
 - Potential to focus freight in particular corridors and reduce freight and passenger conflicts when part of larger freight plan
 - Alignment with State sustainability objectives for land use, greenhouse gasses, and other environmental impacts

A=COM







Study Process and Results

How can North Carolina position itself to be a portal to the global maritime economy?



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MARITIME Strategy

Study outcomes

- Decision tool and process for evaluating port and related multimodal investments
- ✓ Basis for long- and short-term investment strategy for more efficient, effective and safe movement of waterborne cargo in and out of the state
- ✓ Identification of priority projects
- √ Support for long-range planning
- Address institutional issues to approach maritime transportation issues in a more seamless manner



MARITIME Strategy

Expectations of the Advisory Council

- Act as a hands-on, advisory body to guide the development of the North Carolina Maritime Strategy
- Participate in meetings and/or discussions of the Advisory Council at key project milestones over the year
- Provide guidance and input to the project team on project findings and alternatives
- Offer insight to the study process based on your knowledge of the industry
- Facilitate project team discussions with stakeholders within industry



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MARITIME Strategy

Key challenges and opportunities

- 1. How would you define success for the Maritime Strategy?
- 2. What are some of the major transportation issues affecting trade and economic growth in North Carolina?
- 3. What types of investments in infrastructure (ports and port-related rail and highways) would encourage you to use NC ports?
- 4. Are there other issues affecting trade and growth that should be addressed?



NORTH CAROLINA MARITIME Strategy Schedule and next steps Media release / public project launch May 6, 2011 Advisory Council meeting 1 (freight flows/trends) May 9 Project website launch: www.ncmaritimestudy.com April 28 & May (expanded) Project brochure Late May Public workshops - series 1 June May thru September Stakeholder meetings Advisory Council meeting / input (market scenarios) July Advisory Council meeting / input (infrastructure needs) August/September September/October Advisory Council meeting / input (evaluation approach) Fall Public workshops - series 2 Advisory Council meeting / input (decision matrix) December Note: Advisory Council input may be solicited via teleconference or document review in lieu of in-person meetings **URS**